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G-Ins + TR

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NPIC/TDS/D-752-67
16 March 1967

MEMORANDUM FOR: Chief, Development Staff, TDS
THROUGH : Exploitation Systems Branch, DS
SUBJECT : Trip Report

1. On 13 March 1967, a visit was made [redacted]
[redacted] to investigate a company developed motorized film transport system. A breadboard model had been fabricated and it performed very well.

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2. The system consists of employing a printed circuit torque motor to each reel. There are three modes of operation, all controlled by a single handwheel. The first mode consists of the operator rotating the handwheel in the direction and at the rate he desires to transport the film. The rate and direction of handwheel rotation generate appropriate signals to drive the motors. Therefore, all of the torque required to advance the film is supplied by the motors. This mode of operation gives extremely fine control over the film for precise positioning.

3. The second mode of operation consists of a scanning drive. The operator merely pulls the handwheel out axially to the first detent position. The handwheel now controls a potentiometer, whereby the angle of rotation of the handwheel relative to a null position determines the speed and direction of film transport. One important feature of this mode is that it provides a relatively constant film velocity for the entire reel once the operator determines what speed he desires.

4. By pulling the handwheel to the second detent position, a slew or rewind capability can be achieved. As in the above two modes this system is very positive in that regardless of the film speed employed there is no film looping or spillage. A maximum velocity of 11 ft/second can be achieved and is constant over the entire reel as in the second mode.

5. [redacted] is also initiating a program to investigate inorganic photochromic materials.

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6. [redacted] agreed to submit an unsolicited proposal to develop a light source kit for the existing [redacted] Light Tables.

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Declass Review by NIMA / DoD

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